

Model

ANUXA Corporation of America

Miniature Switch Mode Power Supply

AAD130

130 Watts output power

Power Factor Correction

Parallel/Redundant Operation

Up to 88% Efficiency

Electrical Specifications

Input Voltage: 90-264 VAC, 47-63 Hz

Input Current: <2A RMS @ 115 VAC @ full load

<1A RMS @ 230 VAC @ full load

Inrush Current: <35A, pk @ 132 VAC @ cold start

<75A, pk @ 264 VAC @ cold start

Power Factor: >0.98 @ full load @ 115/230VAC input

Harmonic Distortion: Meets EN61000-3-2

EMI Filtering: Meets CISPR 11 and 22 and FCC Part 15

Class B (conducted)

Input Protection: Internal AC line fuse; 250 VAC, 4.0A

Output Power: 130W with 15CFM air; 80W Convection

cooled (consult factory for current ratings)

Line Regulation: ± 0.3%

Load Regulation: ± 1% for V1 and V2

± 5% for V3 and V4

PARD: Greater of 1% or 50mV

20MHz bandwidth >20 ms @ full load

Hold-up Time: >20 ms @ ful

Turn-on Delay: <2 seconds

Output Polarity: See Voltage Chart

Minimum Load: >0.5A for V1 and V2

>0.1A for V3 and V4

Transient Response: Greater of 150mV or 3% for 25%

load change @ 1A/µs (V1 and V2)

Output Rise Time: <100 ms (10% to 90%)

HALT Accelerated
Life
Testing



Remote Sense: Standard on V1 and V2

Up to 400mV of cable drop

AC Power Fail: TTL_{LOW} logic "0" at least 5 ms before DC

output drops 5% (without signal jitter). <10mA sink current for Power Fail "0". <1mA source current for Power Fail "1".

Overshoot/Undershoot: <5% overshoot with remote sense at output

terminals

Current Share (option): Load currents of V1 and V2 for similar units

can be shared @ <±5% of total load

Overvoltage Protect: Factory set, 125% ±5% on V1 and V2 cycle AC to reset

Short Circuit Protection: All outputs are auto recovery

Reverse Voltage: Reverse current up to rated outputs

Case Power Protection: Standard operation interrupt (hiccup mode)

Efficiency: Up to 88%

MTBF: MIL-STD-HDBK 217E >200,000 hours @ 25°C Highly Accelerated Life Testing

Available Voltage Outputs*

		_	_						
	Voltage Codes	V1 Voltages (Volts)	V1 Currents (Amps)	V2 Voltages (Volts)	V2 Currents (Amps)	V3 Voltages (Volts)	V3 Currents (Amps)	V4 ** Voltages (Volts)	V4 Currents (Amps)
-	-1	+1.8	14	+1.8	16	+1.8	1.5	-1.8	1.5
	-2	+3.3	14	+3.3	16	+3.3	1.5	-3.3	1.5
	-3	+5	14	+5	14	+5	1.5	-5	1.5
_	-4			+12	5	+12	1.5	-12	1.5
	-5					+15	1.5	-15	1.5
	-6					+24	1.5	-24	1.5

^{*} Consult factory for other voltages and OEM quantities.

PART # STRUCTURE:

MODEL - VOLTAGE CODE - OPTION CODES (See back)

- V1 V2 V3 V4 -AAD130 - X X X X

- ABC....

Example: Part Number $\underline{AAD130-3244-AM} = 130W$ Power Factor Corrected, (V1) +5V @ 14A, (V2) +3.3V @ 16A, (V3) +12V @ 1.5A and (V4) -12V @ 1.5A with Current Sharing and Metric Mounting.

^{**} Standard Polarity for V4 is negative (-). V4 is available with positive polarity as a Tailored or Custom model. Note: Standard models are 3244, 3255, 3264, 3404 and 3464



ANUXA Corporation of America

AAD130

#6-32 PEM Nut (Standard) Current Sharing (A)
PF Invert (B) Thru-Hole Mounting (C)
Metric Mounting (M) PF Open Collector (O)

Input and Options with Gold Pins (G)
Molex Output Connector with Gold Pins (J)
Molex Connectors with Standard Pins (K)

Surge & ESD Test Levels

EN61000-4-5 Level 3 EN61000-4-2 Level 2

EN61000-3-2 EN61000-4-2 Level 3 (Air Only)

EN61000-4-4 Level 3 EN61000-4-11

Meets Class B conducted limits per
CISPR 11/22 and 47 CFR 15 subpt B

Altitude:

V1 ADJ

Altitude:

V2 ADJ

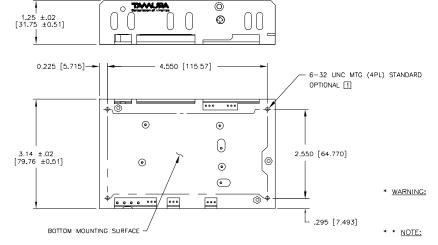
MOLEX CONNECTOR
22-23-2081
MATES WITH
22-01-3087

DC OUTPUT

CHASSIS GROUND
TERM OK DISCONN
(250)

ADJ

MOLEX CONNECTOR
12-22 GA WIRE
22
TORQUE-4 IN/LBS



1040 South Andreasen Drive, STE, 100, Escondido, CA 92029-1951



Safety Compliance

IEC / EN / UL / CSA 60950-1

CE Declaration to Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU

Physical Specifications

Dimensions: (HxWxL) 1.25" x 3.14" x 5"

Operating Temp: 0 to 50°C; rated power to 50°C

with 15CFM air

Relative Humidity: 5% to 90%, non-condensing

Storage: -50 to 85°C/20-90% RH

itude: 6561

40,000' storage

PIN NO.	CN1
1	AC LINE
2	
3	NEUTRAL

MOLEX CONNECTOR 26-60-4030 CENTER PIN REMOVED

NO,	CN2		
1	V3	*	*
2	V2	*	*
3	RTN		
4	RTN		
5	V1	*	٠
6	V4	*	*

FOR 12-22 GA WIRE TOROUE-4 IN/LBS

PIN NO.	N CN3				
1	V2 CURRENT SHARE	1			
2	V1 CURRENT SHARE				
3	POWER FAIL				
4	RTN				
5	V1 -REMOTE SENSE				
6	V1 +REMOTE SENSE	+			
7	V2 + REMOTE SENSE	*			
8	V2 -REMOTE SENSE	*			

MOLEX CONNECTOR 22-23-2081

UNIT	WEIGHT
0.7	72 LBS

DAMAGE WILL OCCUR IF REMOTE SENSE LEADS ARE REVERSED OR USED WITH LOAD DISCONNECTED FROM RESPECTIVE OUTPUTS.

FOR PROPER REGULATION MINIMUM LOADS ARE REQUIRED. 0.5A FOR V1 AND V2. 0.1A FOR V3 AND V4

- 2 OPTIONAL- MOLEX CONNECTOR LIMITED TO 7A FOR V1, V2 OUTPUT
- OPTIONAL #6 CLEARANCE HOLE PROVIDED THROUGH THE BOARD AND CHASSIS FOR TOP SIDE MOUNTING OF POWER SUPPLY. NOTES: UNLESS OTHERWISE SPECIFIED.

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Item 40616 Rev A





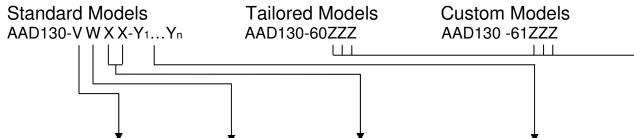




PRODUCT CODE TABLE



AAD130 Power Supply Series



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	Voltage and Current Ratings					Standard Options	
Codes	"V" Channel (V1) Volts Amps		(V2)		_	nannels nd V4) *** Amps	"Y" Code Descriptions
1 2	+1.8	14 14	+1.8	16 16	1.8	1.5 1.5	A Current Sharing B PF Invert C Through Hole Mounting* G = Gold Input and Option Connector Pins
3	+5	14	+5	14	5	1.5	J = Molex Output Connector with Gold Pins** K = Molex Output Connector with Standard Pins**
4 5		/ailable /ailable	+12 Not Av	5 ⁄ailable	12 15	1.5 1.5	M = Metric Mounting* O = PF Open Collector
6	Not A	/ailable	Not Available		24	1.5	*Standard Pemnut mounting is standard
0	Not Used		Not	Not Used		Used	**7A MAX current for V1, V2 outputs
Tailored Units (No safety changes) 1. Standard polarity for V4 is negative (-). 2. V4 is available with positive (+) polarity as Tailored or Custom model. 3. V3 is available only with positive (+) polarity. Tailored Units (No safety changes) 60ZZZ, where ZZZ = Factory Assigned Number Harnesses Added, Special test data, Etc. Custom Units (Safety critical changes)							
						Factory Assigned Number Harnesses Added,	
						61ZZZ, where ZZZ =	

Factory Assigned Number